

ABSTRACT OF THE DISCLOSURE

Pedicle screws are secured in two columns, one along each side of the spine. Cross support rods have ends connected to pedicle screw heads. A longitudinally extending rod is supported on the cross supports and recessed in the cavity created by removal of portions of spinous processes, providing a reduced profile of the installed construct. Several types of cross supports are shown such as: arms from the screws inward to rings or yokes connecting the longitudinal rod; cross rods with ends connected to the screws and having centrally-located yokes for the longitudinal rod; cross rods with articulating longitudinal rod portions fixed or swiveled to them. These cross rods may have end portions angled posterior toward anterior to accommodate lateral positioned pedicle screws, but shorter cross rods without angled end portions enable medialized pedicle screw orientation.